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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/486,744	03/01/2000	YVES TROUILHET	AD6530	9833
23906	7590 02/27/2003			
E I DU PONT DE NEMOURS AND COMPANY LEGAL PATENT RECORDS CENTER BARLEY MILL PLAZA 25/1128			EXAMINER	
			HON, SOW FUN	
4417 LANCASTER PIKE WILMINGTON, DE 19805			ART UNIT	PAPER NUMBER
	•		1772	<i>f</i> 2
			DATE MAILED: 02/27/2003	(>

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application N .	Applicant(s)		
Office Action Summary		09/486,744	TROUILHET, YVES		
		Examiner	Art Unit		
		Sow-Fun Hon	1772		
The MAILING DATE f this communication appears n the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status 1)⊠	Responsive to communication(s) filed on 23 L	December 2002			
2a)□		is action is non-final.			
3)□	,		osecution as to the merits is		
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims					
4) Claim(s) 1-7 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-7</u> is/are rejected.					
7)	Claim(s) is/are objected to.				
8) Claim(s) are subject to restriction and/or election requirement. Application Papers					
9)☐ The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.					
,	Applicant may not request that any objection to the		,		
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a)⊠ All b)☐ Some * c)☐ None of:					
	1. Certified copies of the priority documents have been received.				
	2. Certified copies of the priority documents have been received in Application No				
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)					
1) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	(PTO-413) Paper No(s) Patent Application (PTO-152)		

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/23/02 has been entered.

Response to Amendment

Rejections Withdrawn

- 2. The 35 U.S.C. 112,2nd paragraph rejection in Paper # 7 (mailed 06/18/02) of claims 1-7 has been withdrawn due to Applicant's amendment and clarification in Paper # 12 (filed 12/23/02).
- 3. The 35 U.S.C. 103(a) rejections in Paper # 7 (mailed 06/18/02) of claims 1-7 over Parks et al. as the primary reference has been withdrawn due to the new rejections below.

New Rejections

Claim Rejections - 35 USC § 103

- 4. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 5. Claims 1-4, 6-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Parks et al. in view of DuPont (DuPont Packaging).

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Parks et al. has a paperboard laminate wherein an embodiment shows a laminate (sandwich structure) of tie layer/amorphous nylon/adhesive (tie) layer coextruded onto the inner surface of the paperboard (column 3, lines 15-20) and thus reads on the packaging material of both claims 5 and 6 since the final laminate is the same whether layers (*b* layer of grafted ethylene copolymer) and (*c* layer of amorphous nylon) are individually extruded or coextruded onto layer (*a* of paper). Parks et al. teaches that the adhesive (tie) layer is an anhydride (maleic) grafted (modified) ethylene (ethyl/methyl/butyl) acrylate with a basis weight of 3.2 to 13 g/m². Parks et al. teaches that the claimed ethylene vinyl acetate, ethylene-acid copolymer adhesive materials are well known in the art as demonstrated by the cited patents incorporated by reference (column 4, lines 45-60).

Parks et al. teaches that the amorphous nylon is preferred due to its being suitable for coextrusion coating (column 4, lines 35-45) and that the basis weight is 6.5 to 60 g/m² (4-12 lbs/ream). Parks et al. teaches that the substantial crystallinity of nylon 6 and nylon 66 make them individually unsuitable, having high tensile strength and elongation to fracture (column 4, lines 4, lines 40-45), suggesting to one of ordinary skill in the art that the crystallinity should be disrupted by blending with the amorphous nylon in order to obtain the desired tensile strength and elongation to fracture.

Because Parks et al. teaches that the amorphous nylon Selar PA 3426 has an oxygen permeability of 0.24 cc.mil/100 in².day.atm (column 7, lines 35-55), it is the examiner's position that the claimed oxygen barrier property of the present application in terms of cc/m².day.atm is met by the laminate comprising the amorphous nylon Selar PA 3426 of Parks et al.

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Parks et al. fails to disclose the claimed water vapor barrier between 100 and 1000 g/m².d at 38°C and 90 % relative humidity.

Because DuPont teaches that the moisture barrier property of nylon Selar PA 3426 is 2.0 g/100 in².day.atm in terms of water vapor transmission rate (WVTR) at 23°C and 95 % relative humidity, it is the examiner's position that the claimed water vapor barrier between 100 and 1000 g/at 38°C and 90 % relative humidity of the present application in terms of g/100 in².day.atm in terms of water vapor transmission rate (WVTR) at 23°C and 95 % relative humidity is met by the laminate comprising the amorphous nylon Selar PA 3426 of Parks et al.

6. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Parks et al. in view of DuPont (DuPont Packaging) as applied to claims 1-4, 6-7 above, and further in view of Zabrocki.

Parks et al. teaches the packaging laminate, but fails to teach that the adhesive layer of ethylene copolymer further comprises up to 40 weight % of a copolyether, copolyetheramide or a polyurethane thermoplastic.

Zabrocki teaches adhesives which have unexpected synergistic increase in strength values over those of the individual components and yet are coextrudable (column 9, lines 30-60). The adhesive blends comprise from about 20 to about 80 weight percent thermoplastic polyurethane and from about 5 to about 50 weight percent of modified polyolefin (column 3, lines 40-45) wherein the modified polyolefin is taught to be graft olefin copolymers, a specific example being a maleic anhydride grafted ethylene/vinyl acetate copolymer blend (column 11, lines 1-30). Zabrocki teaches that the blends are flexible, have high tensile and tear strength, with good adhesion to a wide variety of plastics, useful in plastic laminating (column 9, lines 60-68).

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adhesion.

Because Zabrocki teaches that the blends are flexible, have high tensile and tear strength, with good adhesion to a wide variety of plastics, useful in plastic laminating, it would have been obvious to one of ordinary skill in the art to have used the claimed adhesive blend of polyurethane thermoplastic and maleic anhydride grafted ethylene vinyl acetate copolymer of Zabrocki as the maleic anhydride grafted ethylene vinyl acetate adhesive layer in the invention of Parks et al. in order to obtain a flexible laminate packaging material with good interlaminate

Response to Arguments

7. Applicant's arguments with respect to claims 1-7 have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication should be directed to Sow-Fun Hon whose telephone number is (703)308-3265. The examiner can normally be reached Monday to Friday from 9:00 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon, can be reached on (703)308-4251. The fax phone number for the organization where this application or proceeding is assigned is (703)872-9310.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0661.

Sow-Fun Hon

02/20/B

SUPERVISORY PATENT EXAMINER

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